

WHAT IS CLAIMED IS:

1. An integrated circuit, the integrated circuit during operation operating with memory, the integrated circuit comprising:

an interface circuit configured to control access to said memory, the interface circuit coupled to said memory;

an embedded processor configured to control the integrated circuit, the embedded processor coupled to said interface circuit to receive information therefrom;

an array processor for performing arithmetic calculations, the array processor coupled to said interface circuit to receive information therefrom.

2. The integrated circuit according to claim 1 wherein said array processor comprises:

a plurality of multiply/accumulators; and

a shared operand circuit coupled to provide a shared operand to at least two of said plurality of multiplier/accumulators.

3. The integrated circuit according to claim 1 wherein said interface circuit includes a wire bundle for providing wide access.

4. The integrated circuit according to claim 3 wherein said wire bundle comprises at least 256 wires.

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F3

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Q11

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Sub A1